

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Comments
Event	1	Arrive at Location from Service Center	Arrive at Location from Service Center	12/17/2015	07:45:00	USER				ARRIVE AT LOCATION AT 0745. HELD SITE ASSESSMENT AND PRE RIG UP SAFETY MEETING PRIOR TO RIGGING UP EQUIPMENT.
Event	2	Other	Other	12/17/2015	08:30:00	USER				WATER TESTED HIGH ON PH (12) AND SULFATES +1600. WATER TRUCK SENT BACK AND ANOTHER CALLED..
Event	3	Other	Other	12/17/2015	11:00:00	USER	0.00	0.00	8.00	NEW WATER TRUCK SHOWED UP AT 1100. PRIMED PUMP AND HELD SAFETY MEETING
Event	4	Start Job	Start Job	12/17/2015	11:30:45	COM5	0.00	8.27	12.00	HELD PRE JOB SAFETY MEETING WITH ALL PRESENT PERSONEL PRIOR TO STARTING JOB. RETAINER SET AT 4450'. PERFS AT 4545'.
Event	5	Test Lines	Test Lines	12/17/2015	11:36:36	COM5	0.00	8.60	141.00	PRESSURE TEST LINES TO 4000 PSI.
Event	6	Pump Spacer 1	Pump Spacer 1	12/17/2015	11:39:36	COM5	0.00	8.71	37.00	PUMP 10 BBLs FRESH WATER TO ESTABLISH RATE AND PRESSURE THROUGH PERFS. 2 BBLs/ MIN @ 1500 PSI.
Event	7	Pump Cement	Pump Cement	12/17/2015	11:51:58	COM5	2.00	15.70	1554.00	PUMP 27 BBLs (135 SKS) G CEMENT MIXED AT 15.8 PPG USING SUPPLIED

TESTED WATER. DENSITY
VERIFIED BY SCALE.

Event	8	Pump Displacement	Pump Displacement	12/17/201 5	12:02:39	COM5	2.00	15.61	394.00	DISPLACE USING 12 BBLs FRESH WATER LEAVING 5 BBLs (25 SKS) CEMENT ON TOP OF RETAINER.
Event	9	Shutdown	Shutdown	12/17/201 5	12:09:54	USER	0.00	7.81	49.00	
Event	10	End Job	End Job	12/17/201 5	12:15:18	USER	1.10	7.83	51.00	HELD PRE RIG DOWN SAFETY MEETING WITH CREW PRIOR TO RIGGING DOWN EQUIPMENT.
Event	11	Depart Location	Depart Location	12/17/201 5	12:45:00	USER				JOURNEY MGMNT PRIOR TO LEAVING LOCATION.
Event	12	Other	Other	12/17/201 5	12:45:01	USER				ESTIMATED HEIGHT OF CEMENT BETWEEN CASING AND HOLE IS 267 FT. TOP OF CEMENT AT 4278 FT. ESTIMATE BASED OF CUSTOMER GIVEN OPEN HOLE SIZE OF 10 INCH. APPROXIMATE HEIGHT OF CEMENT ON TOP OF RETAINER IS 352 FT.

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Comments
Event	1	Arrive at Location from Other Job or Site	Arrive at Location from Other Job or Site	12/22/201 5	11:40:00	USER				ARRIVE ON LOCATION FROM PREVIOUS JOB.
Event	2	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	12/22/201 5	11:43:00	USER				JSA TO DISCUSS THE HAZARDS OF RIG-UP
Event	3	Rig-Up Equipment	Rig-Up Equipment	12/22/201 5	11:45:00	USER				
Event	4	Rig-Up Completed	Rig-Up Completed	12/22/201 5	12:00:00	USER	6.20	8.33	268.00	
Event	5	Pre-Job Safety Meeting	Pre-Job Safety Meeting	12/22/201 5	12:05:00	USER	0.00	8.37	-7.00	WITH CUSTOMER REP AND RIG CREW
Event	6	Start Job	Start Job	12/22/201 5	12:17:06	COM5	0.00	8.22	-4.00	WITH FRESH WATER SUPPLIED FROM DAY TANK, WATER TEMP 52, CL 56, PH 7
Event	7	Test Lines	Test Lines	12/22/201 5	12:19:11	COM5	0.00	8.32	451.00	@3000 PSI
Event	8	Pump Spacer 1	Pump Spacer 1	12/22/201 5	12:24:31	COM5	0.00	8.32	226.00	15 BBLS FRESH WATER
Event	9	Comment	Comment	12/22/201 5	12:58:04	USER	0.00	8.32	2.00	FLOW LINE PACKED OFF WITH MUD, RIG CIRCULATED FOR 1.5 HOURS.
Event	10	Pump Cement	Pump Cement	12/22/201 5	14:23:55	COM5	0.00	8.34	185.00	100 SKS G NEAT @ 15.8 PPG, VERIFIED WITH PRESSURIZED SCALES
Event	11	Pump Displacement	Pump Displacement	12/22/201 5	14:31:49	COM5	3.10	15.78	157.00	4 BBLS FRESH WATER TO BALANCE

Event	12	Shutdown	Shutdown	12/22/201 5	14:33:46	COM5	0.00	-0.66	-1.00	POOH TO 549'
Event	13	Pump Spacer 1	Pump Spacer 1	12/22/201 5	15:18:46	COM5	0.00	-0.71	1.00	5 BBLs FRESH WATER
Event	14	Pump Cement	Pump Cement	12/22/201 5	15:25:09	COM5	1.90	9.86	67.00	215 SKS G NEAT AT 15.8 PPG, VERIFIED BY PRESSURIZED SCALES. 30 SKS MIXED ON TRUCK FOR TOP OUT, BUT DID NOT NEED IT.
Event	15	Pump Displacement	Pump Displacement	12/22/201 5	15:43:48	COM5	1.00	15.68	228.00	1 BBL FRESH WATER
Event	16	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	12/22/201 5	16:15:00	USER	0.00	13.77	-4.00	JSA TO DISCUSS THE HAZARDS OF RIG DOWN
Event	17	Rig-Down Equipment	Rig-Down Equipment	12/22/201 5	16:17:00	USER	0.00	13.77	-4.00	
Event	18	End Job	End Job	12/22/201 5	16:19:32	COM5				
Event	19	Rig-Down Completed	Rig-Down Completed	12/22/201 5	16:30:00	USER				
Event	20	Depart Location Safety Meeting	Depart Location Safety Meeting	12/22/201 5	16:33:00	USER				JOURNEY MANAGEMENT MEETING PRIOR TO DEPARTURE
Event	21	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	12/22/201 5	16:35:00	USER				JOURNEY CALLED IN TO DISPATCH